

# SECTION TWO - MIOSHA REGULATIONS

## MIOSHA Overview

### Introduction

**E**mployers, including printing establishments with one or more employees, are required to follow the ***Michigan Occupational Safety and Health Act (MIOSHA), Public Act 154 of 1974, as amended***, requirements and rules that apply to their facility. The goal of the MIOSHA is to promote safe and healthy working conditions for all workers. This goal is accomplished by ensuring compliance with the act and its safety and health rules and standards. Chapters 9 through 28 of this guidebook outline the safety and health requirements of MIOSHA most applicable to printers. Specifically, Chapters 9 through 13 cover common regulations applying to both health and safety aspects of MIOSHA (Part 1). Chapters 14 through 20 cover MIOSHA health standards applicable to the printing industry (Part 2); and Chapters 21 through 28 cover MIOSHA safety standards applicable to printers (Part 3).

MIOSHA is administered by the Michigan Department of Consumer and Industry Services (CIS), Bureau of Safety and Regulation. The program includes enforcement of safety and health standards and provision of education, training, and consultation services.

MIOSHA provides for rights and responsibilities that apply to all covered employers and employees. An overview of employer rights and responsibilities may be ordered from the CIS, Bureau of Safety and Regulation.

Please note that while many safety and health requirements common to printing operations are covered in this section, this guidebook does not provide an exhaustive review of all MIOSHA administrative rules. For example, if your printing facility also runs a retail outlet, it is likely that additional rules apply to those portions of your operation.

For a complete listing of MIOSHA safety and health standards, including ordering information, see Where To Go For Help at the end of this MIOSHA Overview.

### ***Common Safety and Health Hazards Identified in Printing Establishments***

*(This represents the most cited MIOSHA safety and health standard violations for the printing industry.)*

- Right-to-Know/Hazard Communication violations:
  - 1910.1200(e)(1)- No written hazard communication program.
  - Written hazard communication program missing chemical list.
  - 1910.1200(h)(1)- Lack of employee training.
  - 1910.1200(f)(4)- Lack of container labeling .
  - 1910.1200(g)(1)- Failure to maintain and organize material safety data sheets.
  - Material safety data sheets not available to employees during each work shift.
  - 408.1014c-Lack of piping identification system.
  - 408.1014j- Lack of sign postings.
- Medical services and first aid:
  - R 4401(3)- Failure to provide emergency eyewashes and body showers.
- Air contaminants:
  - 325.51103(3)(a)- Exposures in excess of the listed time-weighted average (TWA), short-term exposure limit (STEL) or ceiling limits.
- Occupational noise exposure:
  - 325.60107(1)- Not administering a continuing, effective hearing conservation.
- Electrical Hazards:
  - Maintenance worker performing repairs on equipment without being trained to recognize applicable hazardous energy sources, the type and magnitude of the energy available in the workplace, and the methods and means necessary for energy isolation and control.
  - Live parts of electrical equipment operating at 50 volts or more not guarded against accidental contact by an approved cabinet or approved enclosure.
  - Provide access and working space around all electric equipment to permit ready and safe operation and maintenance of equipment.

- Assure that flexible cord is equipped with an attachment plug and is energized from an approved receptacle outlet when used to connect portable lamps or appliances.
  - No operation devices requiring manual activation of both controls so operator cannot place hands within a pinch point during cycle.
- Powered Industrial Trucks:
  - Employer not providing operator a permit after meeting the specified requirements.
  - Trailer being loaded without adequate wheel chocks or other mechanical means that will hold trailer from moving.
  - Horn not working to warn of approach in aisleway.
- Housekeeping:
  - Passageways and aisles with water, debris, oil, grease, and other slip and trip hazards.
  - Electrical extension cords lying across the floor.
  - Materials being piled, stacked, or placed in a manner that creates a hazard to employees.
- Fire Exits:
  - Blocking means of egress with obstructions to egress does not have full and immediate use.
  - Installation or use of locking devices that might hinder free escape from inside the building.
  - Flammable materials such as pallets, rags, paper, etc., being stored near exit areas.
- General Provisions and Machine Guarding:
  - No point of operation guarding or device to prevent employee contact or pinch points.
  - No guard for personnel fan seven feet or less from the floor.
  - Not providing two, hand-control devices of the anti-tie down type and not having them located located in a manner to prevent bridging.
- Flammable and Combustible Liquids:
  - Storage cabinets not designed and constructed to meet National Fire Protection Association specification.

- Inside storage rooms not constructed to meet required fire resistance rating.
- Electrical bonds between nozzles and containers when dispensing flammable liquids not provided.
- Containers in storage not located so as to minimize exposure to excessive temperature rise, physical damage, or tampering by unauthorized personnel.
- Lockout/Tagout:
  - Procedures not developed and documented to control potentially hazardous energy when employees are engaged in service or maintenance, or when machines or equipment could have unexpected energization; start-up or release of stored energy could occur and cause injury.
- Floor and Wall Openings:
  - Open-sided floor, platform or runway not guarded with a standard barrier when four or more feet above adjacent level.
  - Handrails missing from stairway.
- Personal Protective Equipment:
  - Employee using solvents, adhesives or inks without wearing proper eye protection.
  - Employee handling parts with irritating or hazardous substance on them; inadequate hand protection.
  - Employee grinding without adequate eye protection in maintenance shop.

## Where To Go For Help

<b>SUBJECT</b>	<b>Asbestos</b>
<b>CONTACT</b>	CIS, Occupational Health Division, Asbestos Program
<b>TELEPHONE</b>	(517) 322-1320
<b>WEB SITE</b>	<a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a>
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>1. Asbestos Should I Be Concerned? (BSR-OH-N5)</li> <li>2. Who Are We? What Are Our Responsibilities? (BSR-OH-N6)</li> <li>3. Act 135 of 1986 An Overview (BSR-OH-N7)</li> <li>4. Obtaining An Asbestos Abatement Contractor License (BSR-OH-N8)</li> <li>5. Acquiring An Asbestos Certificate of Accreditation (BSR-OH-N9)</li> </ol>
<b>SUBJECT</b>	<b>MIOSHA health issues within the work place</b>
<b>CONTACT</b>	CIS, Occupational Health Division. The division regulates and enforces health standards for potential health risks in the work environment
<b>TELEPHONE</b>	(517) 322-1608
<b>WEB SITE</b>	<a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a>
<b>SUBJECT</b>	<b>Health education training, posters and publications, employer rights and responsibilities, personal protective equipment, and health issues within the work place</b>
<b>CONTACT</b>	CIS, Occupational Health Division, Consultation Education and Training Division (CET)
<b>WEB SITE</b>	<a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a>
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>1. Audio-Visual Library List (OH-903)</li> <li>2. Exposure Control Plan for Limited Exposure (OH-823)</li> <li>3. Hazard Communication Sample Written Program (OH-235)</li> <li>4. Industrial Hygiene Consultants in Michigan (OH-921)</li> <li>5. Model Hearing Conservation Program (OH-946)</li> <li>6. Michigan Safety and Health Protection On The Job Poster (CET #2010)</li> <li>7. Material Safety Data Sheet Location Poster (CET #2105)</li> <li>8. New or Revised MSDS Poster (CET #2106)</li> <li>9. Sample – Bloodborne Infectious Diseases Exposure Control Plan (BSR-CET-823)</li> </ol>
<b>SUBJECT</b>	<b>MIOSHA safety standards within the work place</b>
<b>CONTACT</b>	CIS, General Industry Safety Division. The division is responsible for enforcing safety standards within the work place. The division may inspect or investigate conditions of employment with respect to safety or health.
<b>TELEPHONE</b>	(517) 322-1831
<b>WEB SITE</b>	<a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a>

## Section Two–MIOSHA Health and Safety

<b>SUBJECT</b>	<b>Safety education training, posters and publications, employer rights and responsibilities, personal protective equipment, and safety issues within the work place</b>
<b>CONTACT</b>	CIS, Consultation Education and Training Division (CET)
<b>TELEPHONE</b>	(517) 322-1809
<b>WEB SITE</b>	<a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a>
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>1. Danger Confined Space Poster (CET #0402)</li> <li>2. Danger – No Smoking, Matches, or Open Flames (CET #0321)</li> <li>3. How Most Fire Extinguishers Work Poster (CET #0304)</li> <li>4. Ladder Safety Stickers (CET #0403)</li> <li>5. Lockout Poster (CET #0305)</li> <li>6. Lockout/Tagout Compliance Guide (CET SP #27)</li> <li>7. Material Safety Data Sheet Location Poster (CET #2105)</li> <li>8. Michigan Safety and Health Protection On The Job Poster (CET #2010)</li> <li>9. New or Revised MSDS Poster (CET #2106)</li> <li>10. On-Site Consultation Abatement Method Advice for Flammable and Combustible Liquids (OSC-113)</li> <li>11. Personal Protective Equipment for General Industry (CET SP #16)</li> <li>12. Powered Industrial Truck Operator's Manual (CET #0116)</li> <li>13. Right-to-Know Hazard Communication Compliance Guide (CET SP #22)</li> <li>14. Safety Film and Video Catalog (CET #0145)</li> <li>15. CET Publications List (CET #0105)</li> </ol>
<b>SUBJECT</b>	<b>Copies of the MIOSHA safety and health standards</b>
<b>CONTACT</b>	CIS, Standards Division
<b>TELEPHONE</b>	(517) 322-1845
<b>WEB SITE</b>	<a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a>
<b>PUBLICATIONS</b>	<p>The following list contains health and safety standards promulgated by the General Industry Safety and Occupational Health Standards Commissions as provided by the Michigan Occupational Safety and Health Act (MIOSHA), Public Act 154 of 1974, as amended. These regulations are subject to change. Please contact the CIS Standards Division or visit their web site for the most current listing of available standards.</p> <ol style="list-style-type: none"> <li>1. MIOSHA Administrative Rules for General Industry Safety, Construction Safety, and Occupational Health <ol style="list-style-type: none"> <li>Part 11 Recording and Reporting of Occupational Injuries and Illnesses</li> <li>Part 13 Inspections and Investigations, Citations, and Proposed Penalties</li> <li>Part 42 Hazard Communication (29 CFR 1910.1200)</li> </ol> </li> <li>2. MIOSHA General Industry Occupational Health Standards <ol style="list-style-type: none"> <li>Part 301 Air Contaminant Rules (R 325.51101 – 51108)</li> <li>Part 554 Bloodborne Infectious Diseases (R 325.70001 – 70018)</li> <li>Part 470 Employee Medical/Exposure Records (R 325.3451 – 3476)</li> <li>Part 432 Hazardous Waste Operations and Emergency Response (HAZWOPER) Rule (R 325.52101 – 52137)</li> <li>OSHA Standard – Employee Emergency Plans and Fire Prevention Plans (29 CFR 1910.38[a])</li> </ol> </li> </ol>

<b>SUBJECT PUBLICATIONS</b>	<b>Copies of the MIOSHA safety and health standards (continued)</b>
	2. MIOSHA General Industry Occupational Health Standards (continued)
	Part 472 Medical Services and First Aid (R 4401)
	Part 380 Occupational Noise Exposure (R 325.60101 - 60128)
	Part 490 Permit-Required Confined Spaces (R 325.63001)
	Part 433 Personal Protective Equipment (R 325.60001 – 60012)
	Part 591 Process Safety Management of Highly Hazardous Chemicals (R 325.18301 - 18302)
	Part 451 Respiratory Protection (R 325.60051 and 29 CFR 1910.134)
	Part 474 Sanitation (R 4201)
	Part 520 Ventilation Control (R 3101)
	Part 470 Employee Medical/Exposure Records (R 325.3451 – 3476)
	Part 528 Spray-Finishing Operations
	3. MIOSHA General Industry Safety Standards
	Part 1 General Provisions
	Part 1A Abrasive Wheels
	Part 2 Floor and Wall Openings, Stairways, and Skylights
	Part 3 Fixed Ladders
	Part 4 Portable Ladders
	Part 7 Guards for Power Transmission
	Part 8 Portable Fire Extinguishers
	Part 9 Fixed Fire Equipment
	Part 11 Polishing, Buffing, and Abrading
	Part 12 Welding and Cutting
	Part 14 Conveyors
	Part 17 Refuse Packer Units
	Part 18 Overhead and Gantry Cranes
	Part 19 Crawler, Locomotive, and Truck Cranes
	Part 20 Underhung Cranes and Monorail Systems
	Part 21 Powered Industrial Trucks
	Part 23 Hydraulic Power Presses
	Part 24 Mechanical Power Presses
	Part 26 Metalworking Machinery
	Part 27 Woodworking Machinery
	Part 33 Personal Protective Equipment
	Part 37 Accident Prevention Signs and Tags
	Part 38 Hand and Portable Powered Tools
	Part 39 Design Safety Standards for Electrical Systems
	Part 40 Electrical Safety-Related Work Practices
	Part 49 Slings
	Part 62 Plastic Molding
	Part 75 Flammable and Combustible Liquids
	Part 76 Spray Finishing and Dip Tanks
	Part 85 Lockout/Tagout
	Part 90 Permit-Required Confined Spaces
	Part 91 Process Safety Management of Highly Hazardous Chemicals
	Part 93 Air Receivers

<b>SUBJECT</b>	<b>Recording and reporting of occupational injuries</b>
<b>CONTACT</b>	CIS, MIOsha Information Division
<b>TELEPHONE</b>	(517) 322-1848 for general information  As an employer, you are required to notify the CIS, Bureau of Safety and Regulation, within eight hours of a fatality or any in-patient hospitalization of three or more employees suffering an injury or illness from a single incident. A special report line is available 24 hours a day by calling: (517) 322-0330 – Monday through Friday, 8:00 a.m. to 5:00 p.m. (800) 858-0397 – After 5:00 p.m. or weekends and holidays
<b>WEB SITE</b>	<b><a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a></b>
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>1. Log and Summary of Occupational Illnesses and Injuries (MIOsha 300)</li> <li>2. Supplementary Record of Occupational Illnesses and Injuries (MIOsha 301)</li> <li>3. Recordkeeping Guidelines for Occupational Injuries and Illnesses</li> <li>4. Summary of Work Related Injuries and Illnesses (MIOsha 300A)</li> </ol>
<b>SUBJECT</b>	<b>MIOsha construction standards</b>
<b>CONTACT</b>	CIS, Construction Safety Division
<b>TELEPHONE</b>	(517) 322-1856
<b>WEB SITE</b>	<b><a href="http://www.michigan.gov/cis">www.michigan.gov/cis</a></b>
<b>SUBJECT</b>	<b>Building materials for hazardous material storage</b>
<b>CONTACT</b>	National Fire Protection Association (NFPA)
<b>TELEPHONE</b>	(800) 344-3555
<b>WEB SITE</b>	<b><a href="http://www.nfpa.org">www.nfpa.org</a></b>
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"> <li>1. Standard Methods of Fire Tests of Building Construction and Materials (NFPA 251-1969)</li> </ol>